

IV. AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A filter for filtering solid particles from liquids, especially for use in steam condensers and heat ~~exchanger~~exchangers in thermal and nuclear power plants, said filter comprising a housing (4), a screen basket (2) located within said housing (4), a debris discharge pipe (1) for discharging accumulated and captured debris; a debris extractor arm (3) ~~with a curvature towards the screen extending outwards at a predetermined radius with~~respective vertical plane located at a predetermined distance above the screen so as to maintain an open gap between the bottom surface of the debris extractor arm and the screen, the wherein said debris extractor arm (3) being is rotatably driven over the entire length of the screen and has a curvature towards the screen extending outwards at a predetermined radius with a respective vertical plane to create a low pressure between the debris extractor arm (3) and the screen (4) for complete extraction of debris and conveying to said debris discharge pipe (1).

2. (Currently Amended) The filter as claimed in claim 1, wherein the ~~said debris extractor arm (3)~~ is provided with a drive for driving over the entire length of the screen.

3. (Original) The filter as claimed in claim 2, wherein the drive is a geared motor drive (5, 6).

4. (Currently Amended) The filter as claimed in any one of the preceding claims, wherein the screen basket (4) and the debris extractor arm (5) are disposed apart at a distance and further comprising means for adjusting the distance between said screen basket (4) and debris extractor arm (3).

5. (Original) The filter as claimed in claim 1, wherein the end of debris extractor arm close to the screen is provided with a curvature to avoid contact with the screen.

6. (Original) The filter as claimed in claim 1, wherein said screen basket (4) has a conical shape.

7. (Original) A cooling system comprising an inlet (9) and an outlet (8) for cooling water, a debris filter comprising a housing (4), a screen basket (2) located within said housing (4), a debris discharge pipe (1) for discharging accumulated and captured debris, a debris extractor arm (3) with a curvature towards the screen extending outwards at a predetermined radius with respective vertical plane, the said debris arm (3) being rotatably driven over the entire length of the screen to create a low pressure between the debris extractor arm (3) and the screen (4) for complete extraction of debris and conveying to said debris discharge pipe (1), a debris outlet valve (10), a debris output pipe (11) and a condenser (12) for heat transfer.